

PTO-1449 REPRODUCED		ATTORNEY DOCKET NO. 3239.1000-017		APPLICATION NO. 10/082,803	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION January 15, 2004 (Use several sheets if necessary)		FIRST NAMED INVENTOR Raanan A. Miller		FILING DATE February 21, 2002	
		EXAMINER Paul M. Gurzo		CONFIRMATION NO. 4435	
				GROUP 2881	

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
PB	AD4	3,931,589	01/06/1976	Aisenberg, <i>et al.</i>
PB	AE4	4,025,818	05/24/1977	Giguere, <i>et al.</i>
PB	AF4	4,136,280	01/23/1979	Hunt, <i>et al.</i>
PB	AG4	4,201,921	05/06/1980	McCorkle
PB	AH4	5,536,939	07/16/1996	Freidhoff, <i>et al.</i>
PB	AI4	5,723,861	03/03/1998	Carnahan, <i>et al.</i>
PB	AJ4	5,789,745	08/04/1998	Martin, <i>et al.</i>
PB	AK4	5,801,379	09/01/1998	Kouznetsov
PB	AA5	5,838,003	11/17/1998	Bertsch, <i>et al.</i>
PB	AB5	5,869,344	02/09/1999	Linforth, <i>et al.</i>
PB	AC5	5,965,882	10/12/1999	Megerie, <i>et al.</i>
PB	AD5	6,051,832	04/18/2000	Bradshaw
PB	AE5	6,066,848	05/23/2000	Kassel, <i>et al.</i>
PB	AF5	6,107,628	08/22/2000	Smith, <i>et al.</i>
PB	AG5	6,200,539 B1	03/13/2001	Sherman, <i>et al.</i>
PB	AH5	6,323,482 B1	11/17/2001	Clemmer, <i>et al.</i>
PB	AI5	6,509,562 B1	01/21/2003	Yang, <i>et al.</i>
PB	AJ5	6,618,712 B1	09/09/2003	Parker, <i>et al.</i>
PB	AK5	2002/0134932 A1	09/26/2002	Guevremont
PB	AA6	2002/0070338 A1	06/13/2002	Loboda
PB	AB6	2003/0089847 A1	05/15/2003	Guevremont, <i>et al.</i>
PB	AC6	5,834,771	10/10/98	Yoon, <i>et al.</i>
PB	AD6	6,495,823 B1	12/17/2002	Miller, <i>et al.</i>

EXAMINER <i>Paul Gurzo</i>	DATE CONSIDERED <i>3/4/04</i>
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FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO	
P6	AO	WO 00/08454	02/17/2000	National Research Council Canada		
P6	AP	WO 00/08455	02/17/2000	National Research Council Canada		
P6	AQ	WO 00/08456	02/17/2000	National Research Council Canada		
P6	AL2	WO 00/08457	02/17/2000	National Research Council Canada		
P6	AM2	966583	10/15/1982	Gorshkov, M.P.		X
P6	AN2	1337934 A2	09/15/1987	Buryakov, I.		X
P6	AO2	1405489 A1	06/10/1998	Buryakov, I., et al.		X
P6	AP2	1412447 A1	06/20/1998	Buryakov, I., et al.		X
P6	AQ2	1485808 A1	06/10/1998	Buryakov, I., et al.		X
P6	AL3	1627984 A2	02/15/1991	Buryakov, I.		X
P6	AM3	WO 01/22049 A2	03/29/2001	Haley, L., et al.		
P6	AN3	WO 01/35441 A1	05/17/2001	The Charles Stark Draper Laboratory		
P6	AO3	WO 96/19822	06/27/1996	The Secretary of State for Defense		
P6	AP3	WO 01/69220 A2	09/09/2001	National Research Council Canada		
P6	AQ3	WO 01/69647 A2	09/20/2001	National Research Council Canada		
P6	AL4	WO 02/071053 A	09/09/2002	The Charles Stark Draper Laboratory		

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Pb	AU	"Advanced Cross-Enterprise Technology Development for NASA Missions," Revised NASA Research Announcement NRA99-OSS-05 pp. 1-C19 (1999).
Pb	AV	Buryakov, <i>et al.</i> , "Drift Spectrometer for the Control of Amine Traces in the Atmosphere," <i>J. Anal. Chem.</i> 48(1):112-121 (1993).
Pb	AW	Handy, <i>et al.</i> , "Determination of Nanomolar Levels of Perchlorate in Water by ESI-FAIMS-MS," <i>J. Anal. At. Spectrometry</i> 15:907-911 (2000).
Pb	AX	Buryakov, <i>et al.</i> , "Separation of Ions According to Mobility in A Strong AC Electric Field," <i>Letters to Journal of Technical Physics</i> , 17:11-12 (1991).
Pb	AY	Guevremont, Roger and Purves, Randy W., "High Field Asymmetric Waveform Ion Mobility Spectrometry-Mass Spectrometry: An Investigation of Leucine Enkephalin Ions Produced by Electrospray Ionization," <i>J. Am. Soc. Mass. Spectrom.</i> 10:492-501 (1999).
Pb	AZ	Verenchikov, A.N. <i>et al.</i> , Analysis ions in solutes by gaseous ion analyzer. "Chemical Analysis of the Environmental Objects," red. Malakhov. Novosibirsk, Nauka, pp. 127-134(1991).
Pb	AR2	Riegner D.E., <i>et al.</i> , "Qualitative Evaluation of Field Ion Spectrometry for Chemical Warfare Agent Detection," Proceedings of The ASMS Conference on Mass Spectrometry and Allied Topics, pages 473A-473B, (1997, June).
Pb	AS2	Carnahan, B., <i>et al.</i> , "Field Ion Spectrometry - A New Analytical Technology for Trace Gas Analysis," <i>ISA</i> , 51(1):87-96, (1996).
Pb	AT2	Carnahan, B., <i>et al.</i> , "Field Ion Spectrometry - A New Technology for Cocaine and Heroin Detection," <i>SPIE</i> , 2937:106-119, (1997).
Pb	AU2	Miller, R.A., <i>et al.</i> , "A Novel Micromachined High-Field Asymmetric Waveform-Ion Mobility Spectrometer," <i>Sensors and Actuators B</i> , B67(3):300-306, (2000).
Pb	AV2	Barnett, D.A., <i>et al.</i> , "Isotope Separation Using High-Field Asymmetric Waveform Ion Mobility Spectrometry," <i>Nuclear Instruments &amp; Methods in Physics Research</i> , 450(1):179-185, (2000).
Pb	AW2	Guevremont, R., <i>et al.</i> , "Calculation of Ion Mobilities From Electrospray Ionization High-Field Asymmetric Waveform Ion Mobility Spectrometry Mass Spectrometry," <i>Journal of Chemical Physics</i> , 114(23):10270-10277, (2001).

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Pb	AX2	Pilzecker, P., <i>et al.</i> , "On-Site Investigations of Fas Insulated Substations Using Ion Mobility Spectrometry for Remote Sensing of SF <sub>6</sub> Decomposition," <i>IEEE</i> , pp. 400-403, (2000).
Pb	AY2	Krylov, E.V., "Pulses of Special Shapes Formed on a Capacitive Load," <i>Instruments and Experimental Techniques</i> , 40(5):628, (1197). Also cited in Database Nauka/Interperiodika 'Online!', International Academic Publishing Company (IAPC), Russia; E. Krylov
Pb	AZ2	Burykov, I.A., <i>et al.</i> , <i>Device and Method For Gas Electrophoresis, Chemical Analysis of Environment</i> , edit. Prof. V. V. Malakhov, Novosibirsk: Nauka, (1991) pp. 113-127.
Pb	AR3	Raizer, Y. P., <i>et al.</i> , <i>Radio-Frequency Capacitive Discharges</i> , CRC Press, pp. 1-3, (1995).
Pb	AS3	"A Micromachined Field Driven Radio Frequency-Ion Mobility Spectrometer for Trace Level Chemical Detection," A Draper Laboratory Proposal Against the "Advanced Cross-Enterprise Technology Development for NASA Missions," Solicitation, NASA NRA 99-OSS-05.
Pb	AT3	Javahery, G., <i>et al.</i> , "A Segmented Radiofrequency-Only Quadrupole Collision Cell for Measurements of Ion Collision Cross Section on a Triple Quadrupole Mass Spectrometer," <i>J. Am. Soc. Mass. Spectrom.</i> 8:697-702 (1997).

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<b>SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>CITATION IN AN APPLICATION</b> February 13, 2004 (File several sheets if necessary)		FIRST NAMED INVENTOR Raanan A. Miller		FILING DATE February 21, 2002	
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PG	AE6	6,621,077 B1	09/16/2003	Guevremont et al.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AU3 PG	Javahery, G. and Thomson, B., "A Segmented Radiofrequency-Only Quadrupole Collision Cell for Measurements of Ion Collision Cross Section on a Triple Quadrupole Mass Spectrometer" J. Am. Soc. Mass. Spectrom. 8:697-702 (1997).

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